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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/681,245	10/09/2003	Masami Nagano	. 056208.52824US	7512
23911	7590 04/05/2005		EXAMINER	
CROWELL & MORING LLP			MOHANTY, BIBHU R	
P.O. BOX 14:	UAL PROPERTY GROU! 300	P	ART UNIT	PAPER NUMBER
	ON, DC 20044-4300		3747	

DATE MAILED: 04/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	7.5		
	10/681,245	NAGANO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Bibhu Mohanty	3747			
The MAILING DATE of this communicat	ion appears on the cover sheet v	vith the correspondence address	;		
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA: - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica: - If the period for reply specified above is less than thirty (30) da: - If NO period for reply is specified above, the maximum statutor: - Failure to reply within the set or extended period for reply will, I Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a ation. ys, a reply within the statutory minimum of the y period will apply and will expire SIX (6) MC by statute, cause the application to become A	a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this communi ABANDONED (35 U.S.C. § 133).	ication.		
Status					
1)⊠ Responsive to communication(s) filed o	n 09 October 2003.				
	☐ This action is non-final.				
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
closed in accordance with the practice t	inder <i>Ex parie Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-15 is/are pending in the appl	ication.				
4a) Of the above claim(s) is/are w	vithdrawn from consideration.				
5) Claim(s) is/are allowed.					
6) Claim(s) <u>1-4,6 and 8-15</u> is/are rejected.					
7)⊠ Claim(s) <u>5 and 7</u> is/are objected to.					
8) Claim(s) are subject to restriction	and/or election requirement.	•			
Application Papers					
9) The specification is objected to by the Ex	xaminer.				
10) The drawing(s) filed on is/are: a)		by the Examiner.			
Applicant may not request that any objection					
Replacement drawing sheet(s) including the			121(d).		
11) The oath or declaration is objected to by					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for	foreign priority under 35 U.S.C.	& 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:	io.o.g poy aao. oo a.a.a	3 (=) (=) ()			
1. Certified copies of the priority doc	cuments have been received.				
2. Certified copies of the priority doc		Application No			
3. Copies of the certified copies of the			e		
application from the International					
* See the attached detailed Office action for		ot received.			
Geo the attached detailed office action to	a not or and doranda dopted the				
Attachment(s)					
1) Notice of References Cited (PTO-892)	· 	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-	· · · · · · · · · · · · · · · · · · ·	o(s)/Mail Date f Informal Patent Application (PTO-152))		
3) Information Disclosure Statement(s) (PTO-1449 or PTC Paper No(s)/Mail Date	6) Other: _				

Application/Control Number: 10/681,245

Art Unit: 3747

DETAILED ACTION

1. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention.

In claim 6, lines 6-7, it is unclear how "the above cross-sectional area" is different from the "cross-sectional area" referred to in lines 2-3. It appears that the same cross-sectional area is being referenced in both cases.

The claim is examined to the extent understood.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 6, 9-11 are rejected under 35 U.S.C. 102(a, e) as being anticipated by Sukegawa US Patent 6,776,142.

Sukegawa has disclosed the invention as claimed showing a fuel supply system with an air intake pipe (23), a throttle (21), a downstream fuel injection valve (12), a bypass air intake passage (31), a fuel vaporizing section branch (35) with a heater, and

Application/Control Number: 10/681,245

Art Unit: 3747

a vaporized-fuel distribution passage (18) which connects the branch (35) to an opening in the air intake pipe (23) downstream of the throttle valve.

With regard to claims 9-10, note that the valve (32) and controller (50) are used to control air flow through the bypass passage.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 8, 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sukegawa US Patent 6,776,142.

Sukegawa has disclosed the invention substantially as claimed (see ppgh. 1 above). However, Sukegawa does not show the use of an air intake passage made of resin.

The Examiner takes Official Notice that resin is well known in the art to be a material with the advantage of low cost manufacture.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the invention of Sukegawa to use resin to make the air intake passage, or any other desired component for the known advantage of low cost manufacture known in the art.

Page 4

Application/Control Number: 10/681,245

Art Unit: 3747

With regards to claims 12-15 it would have been obvious to modify the number and timing of the fuel injections based on the measured crank angle and engine temperature to obtain better fuel efficiency as this is considered known in the art.

- 4. Claims 5, 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bibhu Mohanty whose telephone number is 703 308-3706. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 703 308-1946. The fax phone numbers for the organization where this application or proceeding is assigned are 703 308-7766 for regular communications and 703 308-7766 for After Final communications.

Application/Control Number: 10/681,245

Art Unit: 3747

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305-3310.

Bibhu Mohanty Primary Examiner Art Unit 3747

brm April 1, 2005